

Appl. No. 10/696,754

Response Dated December 12, 2005

Reply to Office Action of September 15, 2005

----- EXHIBIT B -----

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425

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domiphen bromide. (dodecyltrimethyl[2-phen-
oxyethyl]-ammonium bromide).
 $C_{12}H_{25}OC_2H_4N(C_{12}H_{25})(CH_3)_3Br$. A quaternary am-
monium salt.

Properties: Crystals. Mp 112C. Soluble in water
and organic solvents.

Use: Medicine (antiinfective).

Donnan hydrolysis. When a neutral salt in water
exchanges its cation for hydrogen ions from the wa-
ter to make the latter alkaline.

donor. An atom that furnishes a pair of electrons
to form a covalent bond or linkage with another
atom, called the acceptor.
See bond, chemical; Lewis electron theory.

DOP. Abbreviation for dioctyl phthalate.
See di(2-ethylhexyl) phthalate.

L-dopa. See L-dihydroxyphenylalanine.

dope. (1) Sizing formulation consisting of solu-
tions of nitrocellulose, cellulose acetate, or other
cellulose derivations applied to crepe yarn to set the
twist and assist creping, and to leather to form a
high-gloss finish. (2) A combustible, such as wood
pulp, starch; sulfur, etc., used in "straight" dynam-
ites. (3) A trace impurity introduced into ultra-
pure crystals to obtain desired physical properties,
especially electrical properties. Examples: erbium
oxide doped with thulium for use as laser crystals;
germanium or silicon doped with boron or arsenic
for use as semiconductors.

Doppler effect. A shift toward longer (shorter)
wavelengths for waves reaching an observer when
the source of the waves is moving away from (to-
ward) the observer.

dormant oil. (refined mineral oil).
Properties: Viscosity 90-150 s (Saybolt 100F). Un-
soluble residue of 50-70%.
Use: As insecticide.

dormant spray. Agricultural insecticidal spray
applied during winter or early spring when plant is
dormant.

dosimetry, radiation. Measurement of the
amount of radiation delivered to the body of an in-
dividual. The permissible dose is the quantity of
radiation that may be received by an individual over
a given period with no detectable harmful effects.
For X- or γ-ray exposure the permissible dose is 0.3
roentgen/week, measured in air. All workers with
radioactive materials are expected to wear some de-
vice for detecting incident radiation. A dosimeter
based on fiber optics has been developed for pos-
sible application in radiation therapy.
See rad; rem.

DOT. Abbreviation for Department of Transpor-
tation, the agency responsible for the shipping reg-
ulations for hazardous products in the U.S.

DOTG. Abbreviation for di-*o*-tolylguanidine.

dotriacontane. (dicetyl). $CH_3(CH_2)_{30}CH_3$
Properties: Crystals. D 0.823, bp 310C, mp 70C.
Use: Research.

DOTT. Abbreviation for di-*o*-tolylthiourea.

double bond. See unsaturation.

double decomposition. (double displacement,
double replacement, metathesis). Reaction of two
compounds to form two new compounds.

double displacement. See double decomposi-
tion.

double layer, electric. See electric double layer.

double replacement. See double decomposi-
tion.

double salt. A hydrated compound resulting from
crystallization of a mixture of ions in aqueous so-
lution. Common examples are the alums; made by
crystallizing from solution either potassium or am-
monium sulfate and aluminum sulfate; Rochelle
salt (potassium sodium tartrate), made from a water
solution of potassium acid tartrate treated with so-
dium carbonate; and Mohr's salt (ferrous ammo-
nium sulfate), crystallized from mixed solutions of
ferrous sulfate and ammonium sulfate.
See nickel ammonium sulfate.

"Doverphos" [Ashland].
TM for tris(nonylphenyl)phosphite.
CAS: 58968-53-9.

Available forms: Liquid.

Use: In rubber, vinyl stabilizers, and various poly-
mers as an antioxidant.

"Dowanol" [Dow]. TM for a series of glycol
monoethers.

Use: Solvents, intermediates for plasticizers, bacte-
ricidal agents, and fixatives for soap and perfumes.

"Dowclene" [Dow]. TM for a series of solvents
for specialized cleaning. A stabilized emulsion of
caustic soda, a detergent, and a sequestering agent.
EC: A colorless liquid, fp -56.6, bp 77-122C, d
1.381. WR: Inhibited 1,1,1-trichloroethane.

"Dow Corning" [Dow Corning]. TM for a
wide range of silicone and polysiloxane products
including emulsions, lubricants, greases, mold-

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